

BACKGROUND

- Electricity Demand Side Management Grant (EDSM Grant).
- Integrated National Electrification Programme Grant (INEP Grant).
- Both are direct grants and grants-in-kind.
- Since the tabling of the 2011 DoR Bill, incorrect allocations have been reflected for different municipalities.
- All are due to 'line slipping'.



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4/8/11 REPUBLIC OF SOUTH AFRICA

Demandside Management And Electricity Enduse Efficiency

William Holderbaum



Demandside Management And Electricity Enduse Efficiency:

Demand-Side Management and Electricity End-Use Efficiency A. de Almeida, Arthur H. Rosenfeld, 2012-12-06 A NATO Advanced Study Institute on Demand Side Management and Electricity End Use Efficiency was held in order to present and to discuss some of the most recent developments in demand side electric power management and planning methodologies as well as research progress in relevant end use technologies Electricity is assuming an increasingly important role in buildings and industry due to its flexibility efficiency of conversion and cleanliness at the point of use However the production and transmission of electricity requires huge investments and may have undesirable environmental impacts The recent nuclear accident in Chernobyl and the damage caused by acid precipitation are creating increasing concerns about the impacts of power plants Some environmental problems are local or regional others such as global warming can affect the whole world Although environmental impacts may be minimized with additional investments electricity generation will become even more capital intensive Energy and electricity in particular is not directly consumed by people To achieve improved standards of living what is important is the level of production of goods and services If it is possible to produce the same quantity of goods and services with less electricity and in a cost effective way substantial benefits can be gained By reducing costs electricity efficiency can raise the standards of living and increase the competitiveness of an economy Electricity efficiency also leads to reduced requirements in power plant operation thus leading to reduced consumption of primary energy supplies and a higher quality environment Demand-side Management at the Crossroads Howard S. Geller, Steven Nadel, Miriam Pye, 1995

Electricity End-use Efficiency International Energy Agency, Organisation for Economic Co-operation and Development, 1989 Demand-side Management Planning Clark W. Gellings, John H. Chamberlin, 1993 Here is a complete guide to the planning and implementation of effective demand side management programs This excellent reference provides expert guidance for every component of the DSM program including load management programs forecasting pricing and promotion of efficient end use technologies For the power user it will provide new insight into utility incentive and rebate programs and how to best take advantage of cost saving benefits **Integrated Electricity Resource Planning** A. de Almeida, Arthur H. Rosenfeld, Jacques Roturier, Jorgen Norgard, 2012-12-06 Since the mid seventies electric utilities were faced with escalating construction costs growing environmental plus siting constraints and increasing uncertainty in demand forecasting To cope with the increasing demand for energy services utilities can either invest in supply side options new generation transmission and distribution facilities or in demand side options Demand side options include policies programmes innovative pricing schemes and high efficiency end use equipment equipment providing the same or better level of services but using less energy or peak power Recent experience in both North America and Europe show that demand side options are usually cheaper and less damaging from the environmental point of view and also their potential can be tapped in a shorter term than other supply side options This workshop was directed at the discussion and analysis of cost effective

methodologies to achieve the supply of electric energy services at minimum cost and minimum environmental impact The programme included new developments in power planning models which can integrate both supply side and demand side actions Quantitative assessments of the environmental impact of different supply demand strategies were analyzed Planning models which deal with uncertainty and use multicriteria approaches were presented Case studies and experiments with innovative concepts carried out by utilities in several countries were discussed Load modelling and evaluation of demand side programmes was analyzed Additionally the potential for electricity savings in the industrial commercial and residential sectors was presented New research directions covering planning models programmes and end use technologies were identified

Advanced Technologies for Electric Demand-side Management: Workshops on DSM technology impacts, 1991 **Thermal Model Predictive Control for Demand Side Management Cooling Strategies** Panayiotis Romanos, 2008 **Control of Energy Storage** William Holderbaum, 2018-04-06 This book is a printed edition of the Special Issue Control of Energy Storage that was published in Energies **The Global Greenhouse Regime** Kirk R. Smith, 2013-12-16 Effective policies to prevent global warming and climatic change are urgently required by the world community However international negotiations on this issue repeatedly come up against the problems of allocating responsibility for the greenhouse effect and bearing the costs of remedying the situation This volume offers a multidisciplinary response to the challenge It presents the scientific economic and political issues and goes on to describe the policy options available The different ways of determining responsibility for greenhouse gases and calculating obligations to pay for hazards to the environment are analyzed The contributors examine the implications for various countries while a concluding chapter explores climatic change negotiations what is at stake and for whom **The Smart Grid** Clark W. Gellings, 2020-12-17 The power system has often been cited as the greatest and most complex machine ever built yet it is predominantly a mechanical system Technologies and intelligent systems are now available that can significantly enhance the overall functionality of power distribution and make it ready to meet the needs of the 21st century This book explains how sensors communications technologies computational ability control and feedback mechanisms can be effectively combined to create this new continually adjusting smart grid system It provides an understanding of both IntelliGridSM architecture and EnergyPortSM as well as how to integrate intelligent systems to achieve the goals of reliability cost containment energy efficiency in power production and delivery and end use energy efficiency Demand-side Management International Energy Agency, 1993 **Investing in Technologies for America's Energy Future** United States. Congress. House. Committee on Science, Space, and Technology. Subcommittee on Energy, 1993 An Evaluation of the Impact of Demand-side Management Expenditures on State-level Electricity Efficiency Stephen Caldwell, 2008 Global climate change has become a topic of increasing importance to political leaders policymakers and the general public Roughly one third of US greenhouse gas GHG emissions come from electricity generation Improved energy efficiency in electricity end uses offers the

promise of reductions in GHG emissions and other benefits Market failures have prompted federal and state governments to intervene to promote energy efficiency One of the largest interventions has been in the form of demand side management DSM programs run by electric utilities state agencies and third parties Given policymakers considerations of further investments in energy efficiency through expanded DSM and other programs to help mitigate climate change it is important to evaluate how effective DSM expenditures have been in improving energy efficiency Proponents of expanded energy efficiency programs point to a large efficiency gap between the current level of energy efficiency and the socially optimal level while citing market failures and barriers as justification for DSM and other programs to promote greater energy efficiency Critics point out at least theoretical concerns about the efficacy of DSM Previous empirical studies have come to divergent conclusions regarding the effectiveness of DSM while also revealing shortcomings in the evaluation methods applied to date In particular previous work highlights the need to take into account changes in energy efficiency from market transformation positive spillover and shifts in economic activity This study analyzes a state level panel data set to estimate the effect of DSM expenditures on state level electricity efficiency controlling for relevant factors and employing a Fisher Ideal index measure of efficiency that distinguishes changes in electricity usage due to changes in electricity efficiency from those due to changes in economic activity Regression results do not indicate that DSM expenditures improve efficiency however electricity price is found to have a strong impact on electricity efficiency *Planning for Demand Side*

Management in the Electricity Sector Jyoti K. Parikh, 1994 Based on a survey of high tension industries in Maharashtra 1990 91 *Saving Energy and Reducing CO2 Emissions with Electricity* Clark Gellings, 2020-12-17 Through different applications electricity provides the energy required for light heat comfort and mechanical work In order to sustain society's expectation for comfort convenience and productivity it will remain necessary to continue to seek and find reasonable quantities of energy in forms which are accessible affordable and have modest or zero environmental impacts This in turn will call for an international imperative to make existing uses of electricity both efficient and practical This book will guide the reader toward a clearer vision of that goal with explanations of the concept of electrification along with CO2 reductions through expanded end use applications of electricity Topics will include electric cars airport seaport railroad and mining electrification industrial uses of electricity in a variety of processes residential building use of electricity and enhancing energy efficiency and demand response **Advanced Technologies for Electric Demand-side Management:**

Workshops on DSM technology status, 1991 *Selected Orders of the Public Service Commission of Wisconsin* Public Service Commission of Wisconsin, 1986 **Advanced Technologies for Electric Demand-side Management: Plenary sessions** International Energy Agency, Ente nazionale per l'energia elettrica, 1991 *Advanced Technologies for Electric Demand-side Management*, 1991 *International Energy Conference on Demand-side Management* International Energy Agency, Commission of the European Communities, Association of Danish Electric Utilities, 1992

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